

# WEB DESIGN & DEVELOPMENT AAS

The Web Design & Development Associate's Degree prepares students with the skills necessary for organizational web design, development, and management. Course work includes applying current trends in web technology, standards, and applications to real-world projects. Successful students will be able to work in development teams and effectively communicate in the web design and development industry.

Upon completion of this degree, students will:

- Describe and define the roles of a web designer and web developer
- Demonstrate the ability to publish and update web sites and set up a domain
- Construct and design a web page, site, and application using standards-driven HTML and CSS
- Implement event-driven programming on a web page using JavaScript
- Distinguish between content management systems and demonstrate their use and utility
- Complete a web design and development portfolio
- Demonstrate understanding of web-based graphic design, image editing, and design layout
- Compare JavaScript frameworks and demonstrate their use in the building of a client-oriented web application
- Research and describe solutions to customer requirements through a web development capstone project

Completion of a Technical Skills Assessment is required.

## General Education Requirements

Code	Title	Credits
<b>Written Communication</b>		
Select one of the following:		3.00
ENGL-101	WRITING AND RHETORIC I	
<b>Oral Communication</b>		
Select one of the following:		3.00
COMM-101	FUNDAMENTALS OF ORAL COMMUNICATION	
COMM-203	SMALL GROUP COMMUNICATION	
COMM-204	PUBLIC SPEAKING	
<b>Mathematical Ways of Knowing</b>		
Select one of the following:		3.00-5.00
CS-108	INTRODUCTION TO COMPUTER SCIENCE	
MATH-123	MATH IN MODERN SOCIETY	
MATH-143	PRECALCULUS I: ALGEBRA	
MATH-147	PRECALCULUS	
MATH-153	STATISTICAL REASONING	
MATH-170	CALCULUS I	
MATH-253	STATISTICAL METHODS FOR THE SCIENCES	
MATH-257	MATHEMATICS FOR ELEMENTARY TEACHERS II	
MTHPT-130	FINITE MATHEMATICS	
MTHPT-137	MATH FOR TECHNOLOGY	
MTHPT-153	STATISTICAL REASONING	
<b>Social &amp; Behavioral Ways of Knowing</b>		
Select one of the following:		3.00
ANTH-102	CULTURAL ANTHROPOLOGY	
ANTH-120	WORLD PREHISTORY	
ANTH-170	INTRODUCTION TO NATIVE AMERICAN STUDIES	
ECON-201	PRINCIPLES OF MACROECONOMICS	
ECON-202	PRINCIPLES OF MICROECONOMICS	
GEOG-102	INTRODUCTION TO GEOGRAPHY	
HIST-101	WORLD HISTORY I	
HIST-102	WORLD HISTORY II	
HIST-111	UNITED STATES HISTORY I	

HIST-112	UNITED STATES HISTORY II
HRPT-184	DIVERSITY IN ORGANIZATIONS
HRPT-185	HUMAN RELATIONS IN ORGANIZATIONS
POLS-101	AMERICAN NATIONAL GOVERNMENT
POLS-237	INTERNATIONAL POLITICS
POLS-285	COMPARATIVE GOVERNMENT
PSYC-101	INTRODUCTION TO GENERAL PSYCHOLOGY
PSYC-205	LIFESPAN DEVELOPMENTAL PSYCHOLOGY
SOC-101	INTRODUCTION TO SOCIOLOGY
SOC-102	SOCIAL PROBLEMS
SS-184	DIVERSITY IN ORGANIZATIONS
SS-185	HUMAN RELATIONS IN ORGANIZATIONS

**Additional General Education Core**

\*Additional Core Course cannot be used to fulfill a requirement above. 3.00

Select the link below to review LC State's General Education Core courses

<http://catalog.lcsc.edu/general-education> (<http://catalog.lcsc.edu/general-education/>)

**Total Credits** 15.00

## Program Requirements

Code	Title	Credits
CS-111	COMPUTER SCIENCE 1	4.00
CS-226	SQL: STRUCTURED QUERY LANGUAGE	3.00
WEB-111	FOUNDATIONS OF WEB DEVELOPMENT	3.00
WEB-112	FUND OF PROG: JAVASCRIPT	3.00
WEB-117	WEB DESIGN FUNDAMENTALS	3.00
WEB-180	PORTFOLIO DESIGN	3.00
WEB-265	IMAGE EDIT & ILLUSTRATION	3.00
WEB-275	WEB AUTHORING	3.00
WEB-280	WEB DEVELOPMENT CAPSTONE	3.00
WEB-294	IN: WEB	3.00
Select 14 credits from any CS, CYB, or WEB course		14.00
Completion of a Technical Skills Assessment is required		
<b>Total Credits</b>		<b>45.00</b>

## Sequential Plan of Study

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
CS-111	COMPUTER SCIENCE 1	4.00
ENGL-101	WRITING AND RHETORIC I	3.00
WEB-111	FOUNDATIONS OF WEB DEVELOPMENT	3.00
WEB-117	WEB DESIGN FUNDAMENTALS (Program Requirement::Select CS, CYB, or WEB course)	3.00
Program Requirement	Select CS, BUS, CYB, or WEB course	4.00
<b>Credits</b>		<b>17.00</b>
<b>Spring</b>		
WEB-112	FUND OF PROG: JAVASCRIPT	3.00
WEB-180	PORTFOLIO DESIGN	3.00
WEB-265	IMAGE EDIT & ILLUSTRATION	3.00
CORE	Mathematical Ways of Knowing	3.00
CORE	Oral Communication	3.00
<b>Credits</b>		<b>15.00</b>

**Second Year****Fall**

CS-226	SQL: STRUCTURED QUERY LANGUAGE	3.00
WEB-275	WEB AUTHORIZING	3.00
CORE	Additional General Education Course	3.00
Program Requirement	Select CS, CYB, or WEB course	3.00
Program Requirement	Select CS, CYB, or WEB course	3.00
<b>Credits</b>		<b>15.00</b>

**Spring**

WEB-280	WEB DEVELOPMENT CAPSTONE	3.00
WEB-294	IN: WEB	3.00
CORE	Social & Behavioral Ways of Knowing	3.00
Program Requirement	Select CS, CYB, or WEB course	4.00
<b>Credits</b>		<b>13.00</b>
<b>Total Credits</b>		<b>60.00</b>

Graduates from Web Design and Development programs go on to obtain careers in a variety of fields:

- Web Developer/Manager/Specialist/Coordinator/Administrator
- Web Designer
- Frontend Developer
- Backend Developer
- UI Designer/UX Developer
- Content Strategist

Please check the U.S. Bureau of Labor Statistics website for more information about these careers.